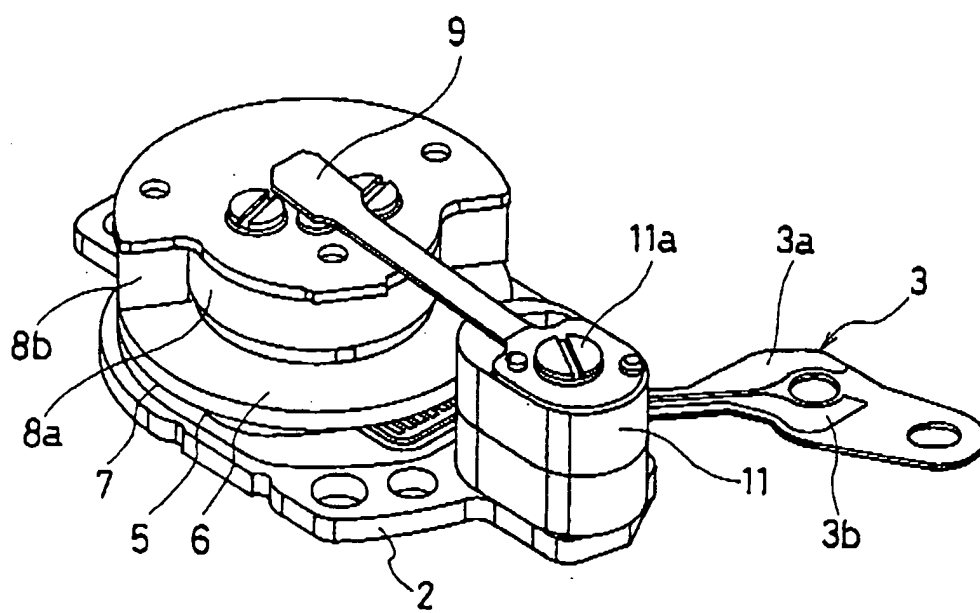


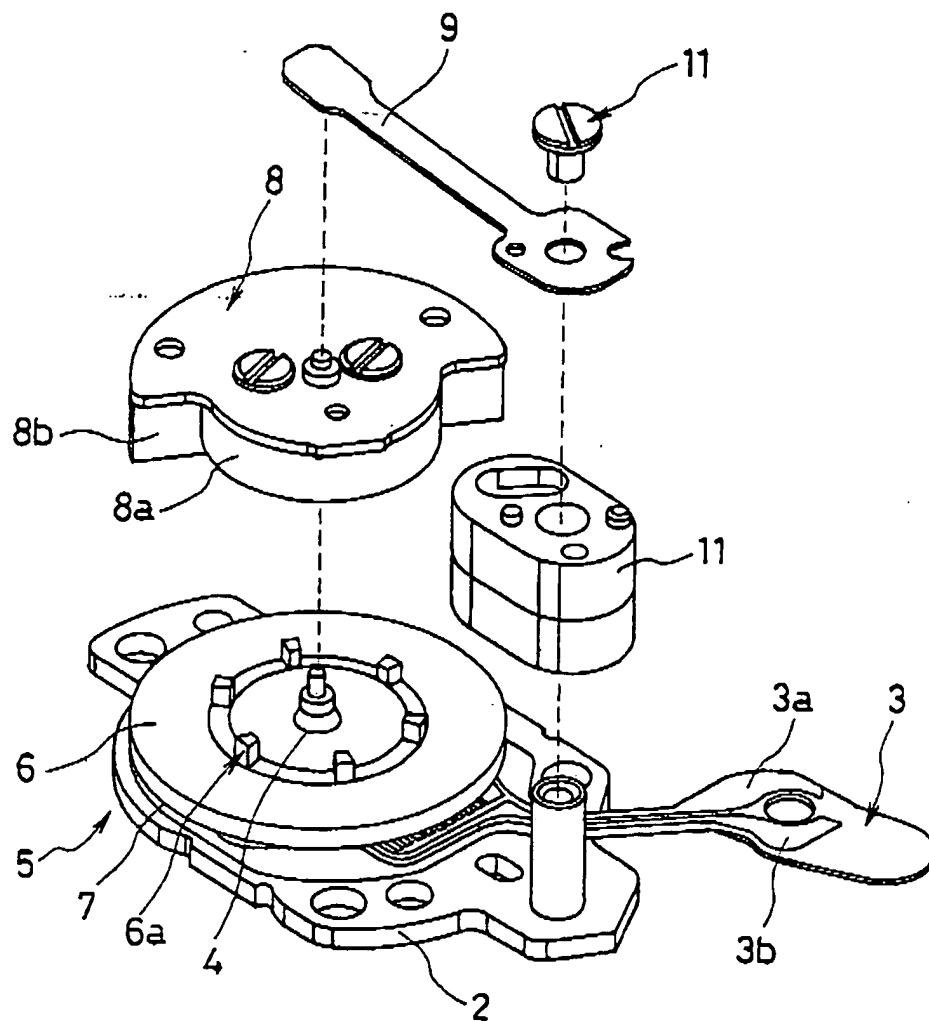
FIG. 1



662740-54000000

45 figs.

FIG. 2



66710-91006260

FIG. 3A

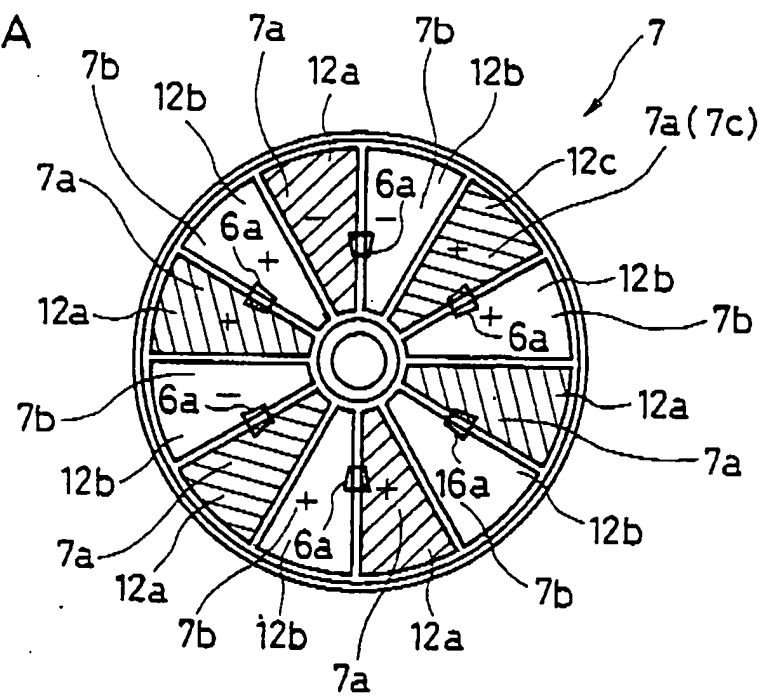


FIG. 3B

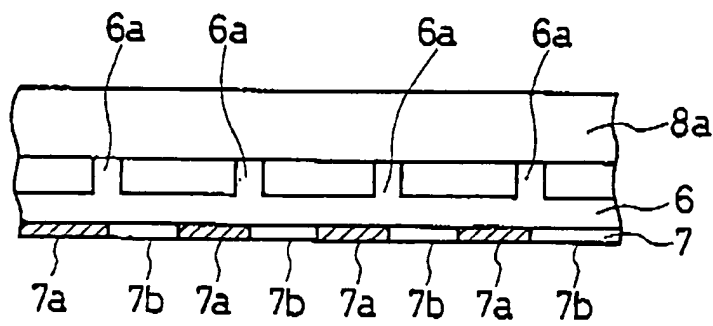


FIG. 3C

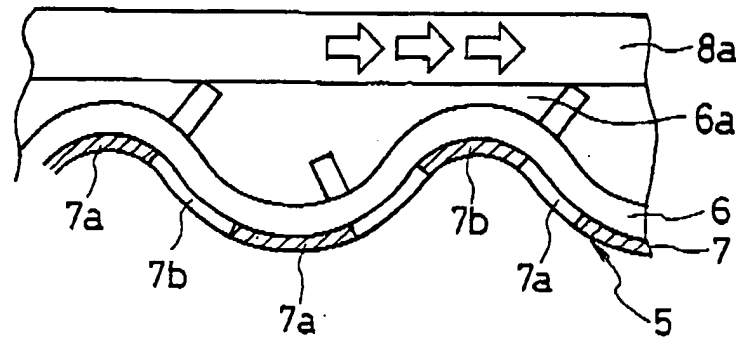


FIG. 4A

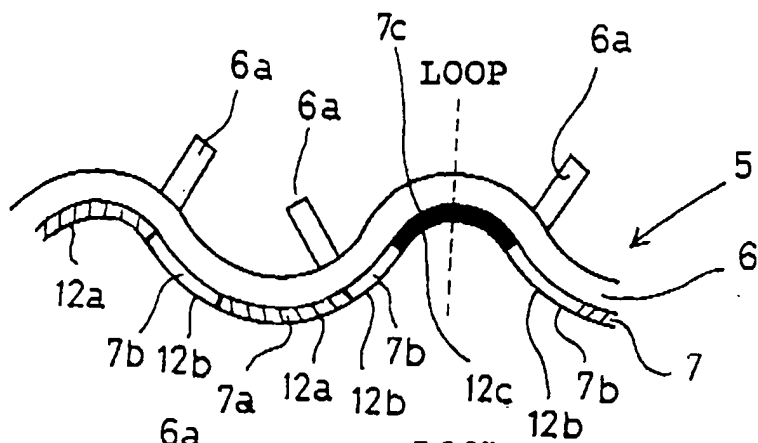
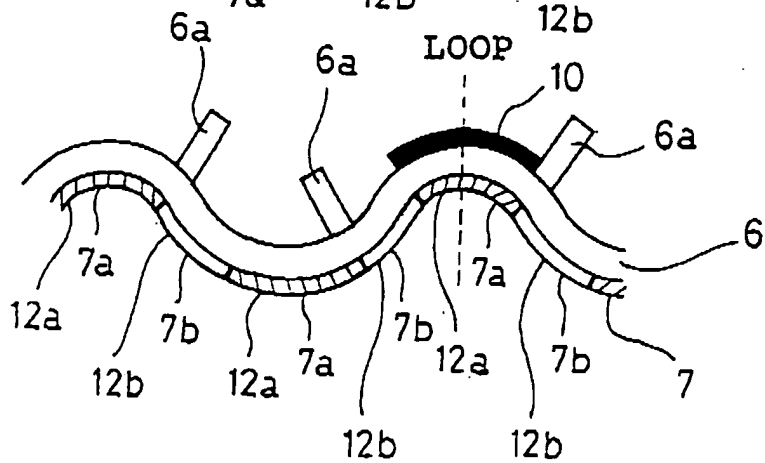


FIG. 4B



66710-00000000

FIG.5A

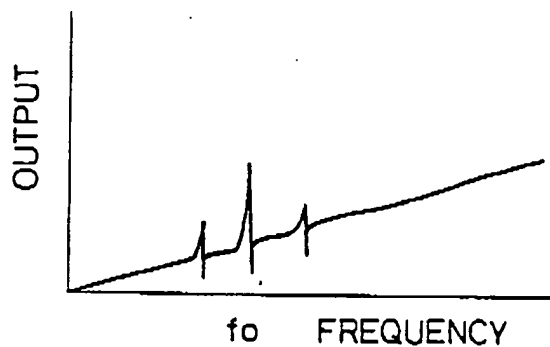
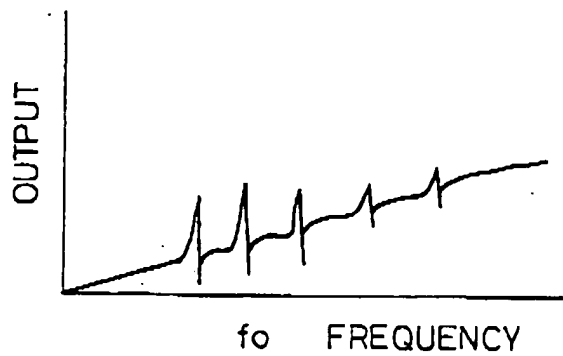


FIG.5B



62-110-37005-60

FIG. 6A

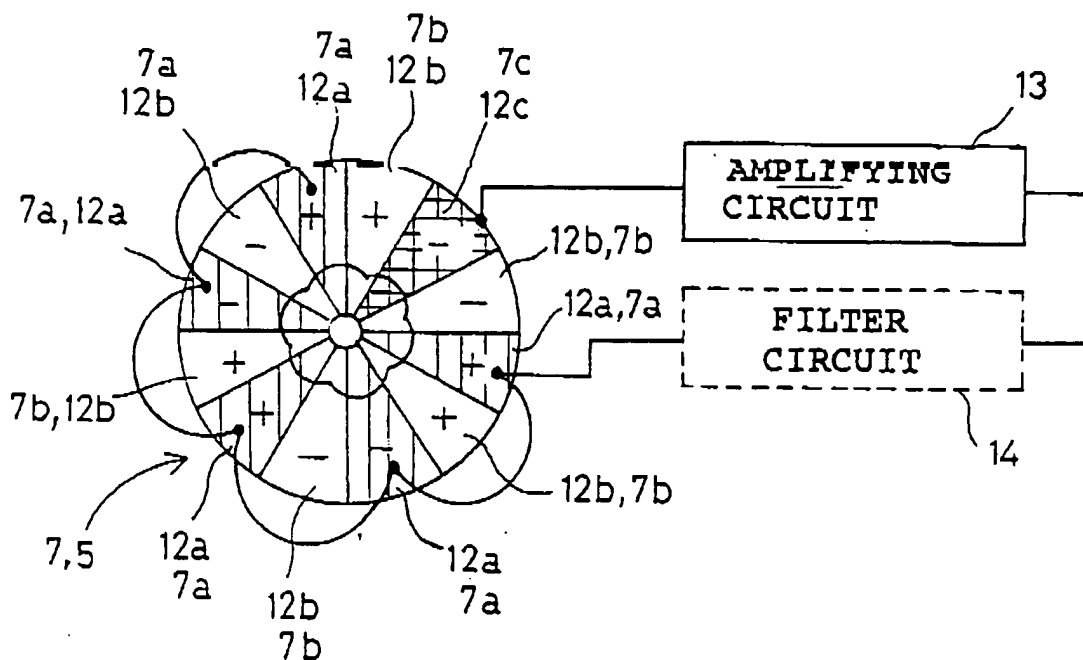
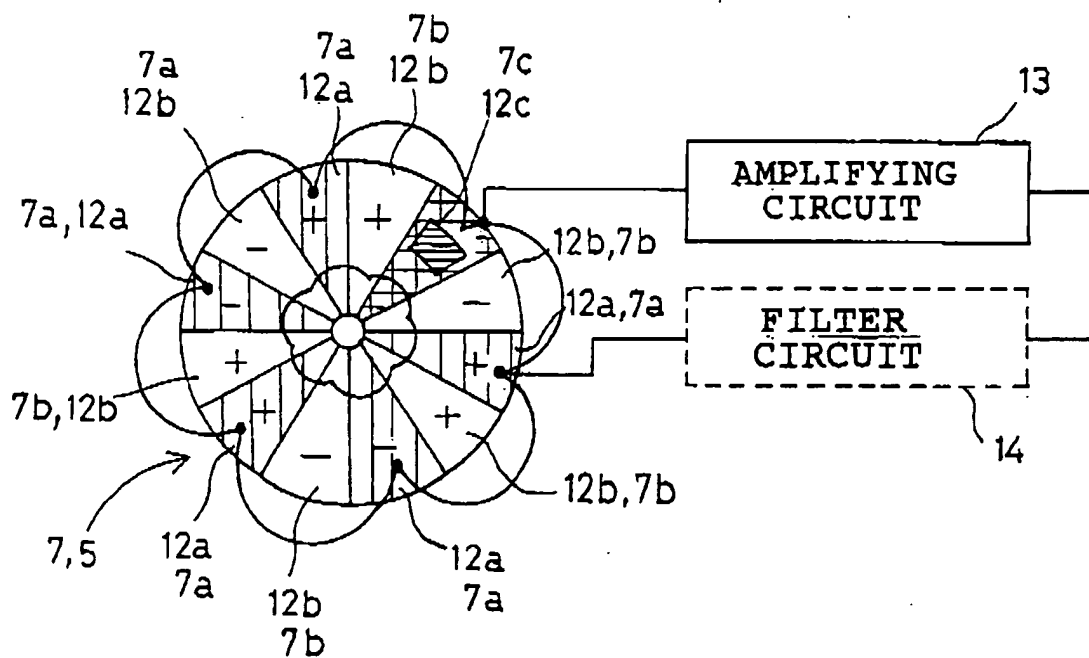


FIG. 6B



662740-97000000

FIG. 7

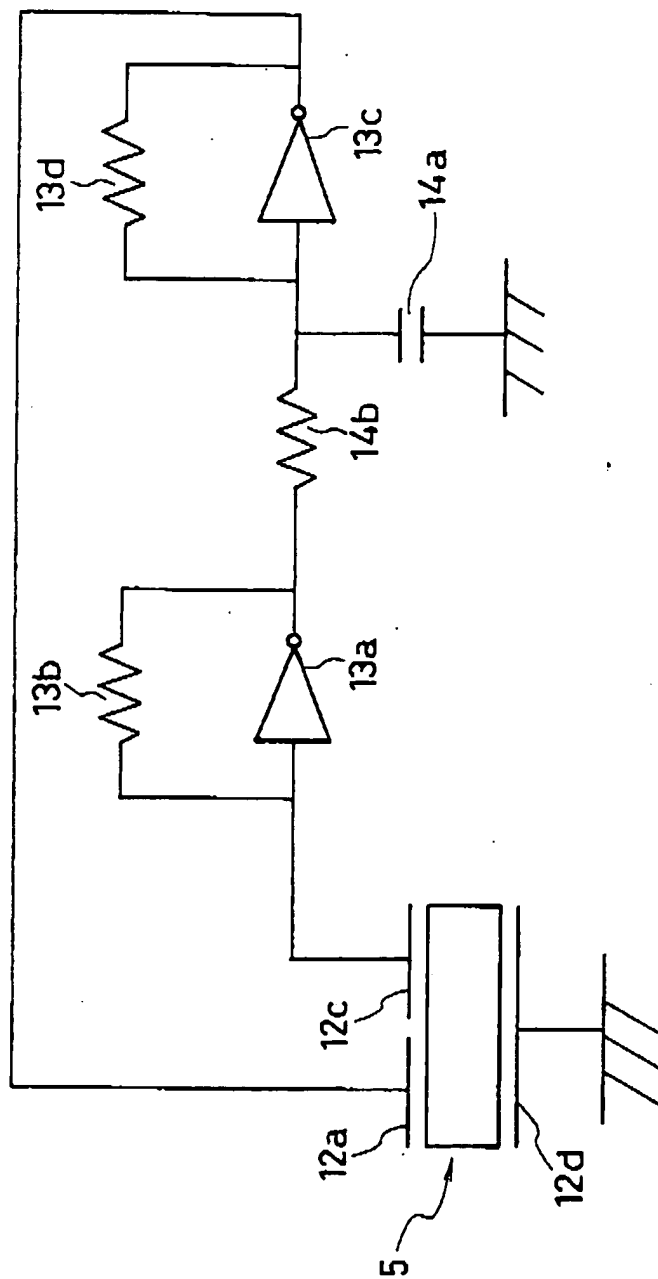


FIG. 8A

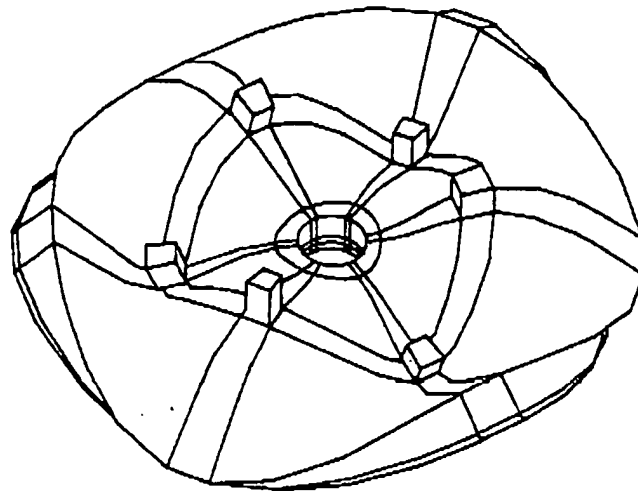


FIG. 8B

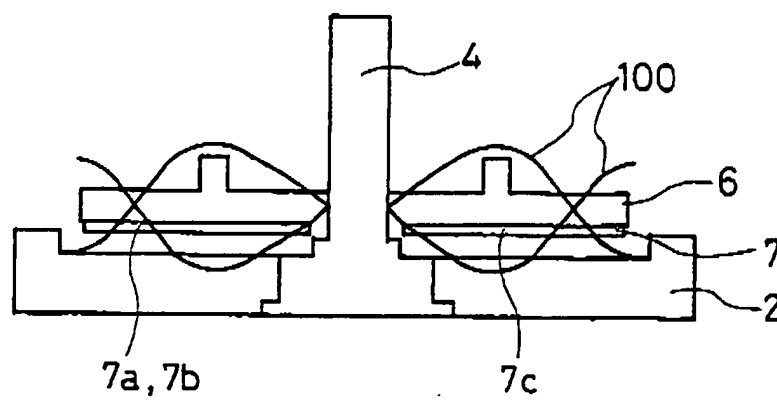
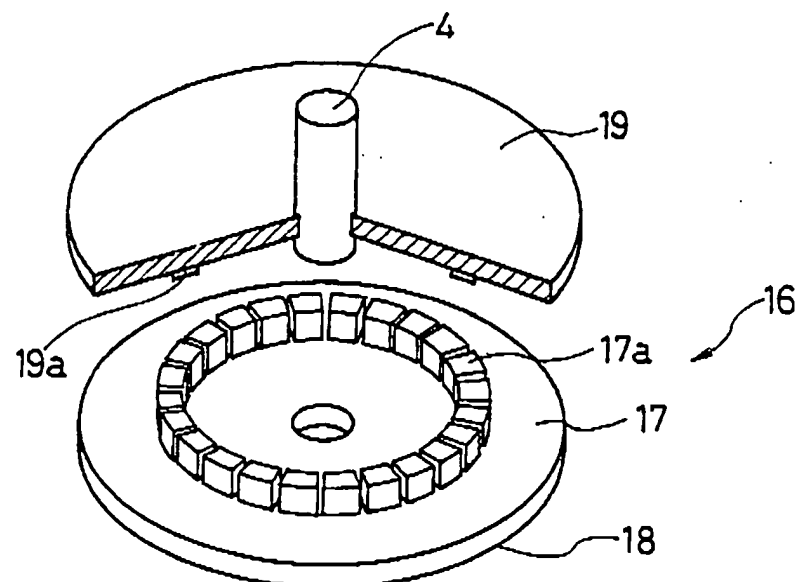


FIG. 9



The diagram shows a circular antenna array 16 with 12 elements. The elements are arranged in six pairs around the circumference. Each pair consists of a vertical element (labeled 18a, 21a) and a horizontal element (labeled 18b, 21b). The elements are connected to two external circuits: an AMPLIFYING CIRCUIT 22 and a PHASE SHIFT CIRCUIT 23. The connections are as follows:

- Elements 18a, 21a and 18b, 21b at the top are connected to the AMPLIFYING CIRCUIT 22.
- Elements 18a, 21a and 18b, 21b at the bottom are connected to the PHASE SHIFT CIRCUIT 23.
- Elements 18a, 21a and 18b, 21b on the left are connected to the AMPLIFYING CIRCUIT 22.
- Elements 18a, 21a and 18b, 21b on the right are connected to the PHASE SHIFT CIRCUIT 23.

 The diagram also shows a central feed structure with a circular center and radial lines connecting to the elements. The elements are labeled with their respective identifiers: 18a, 21a, 18b, 21b, 18c, 21c, 18d, 21d, 18e, 21e, 18f, 21f.

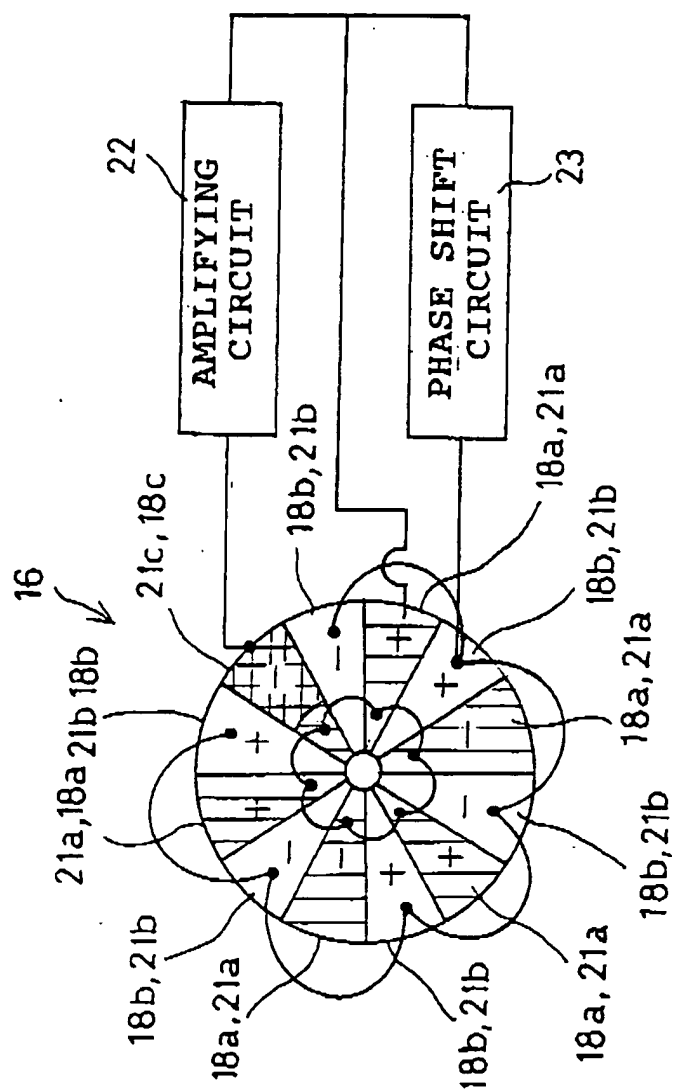


FIG. 11

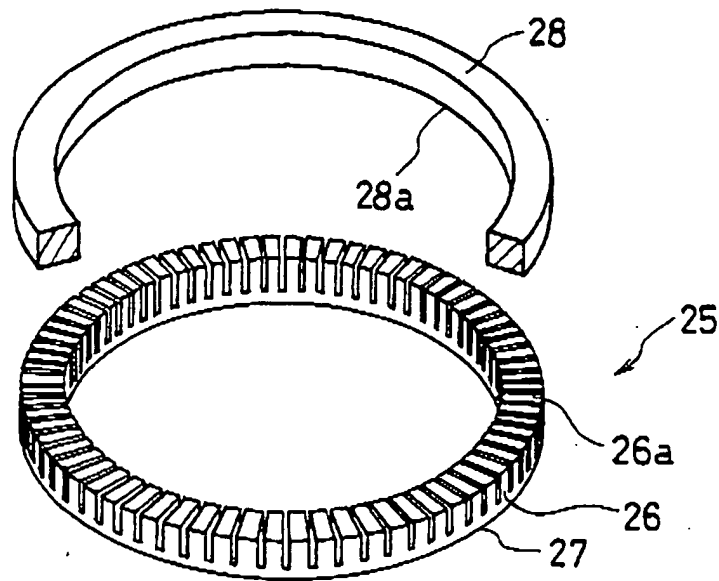


FIG. 12

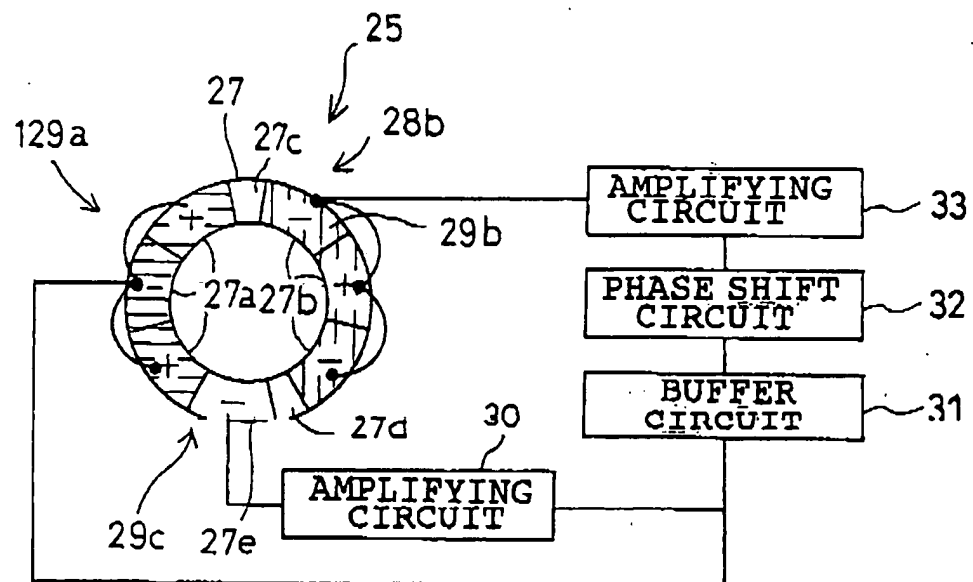


FIG. 13

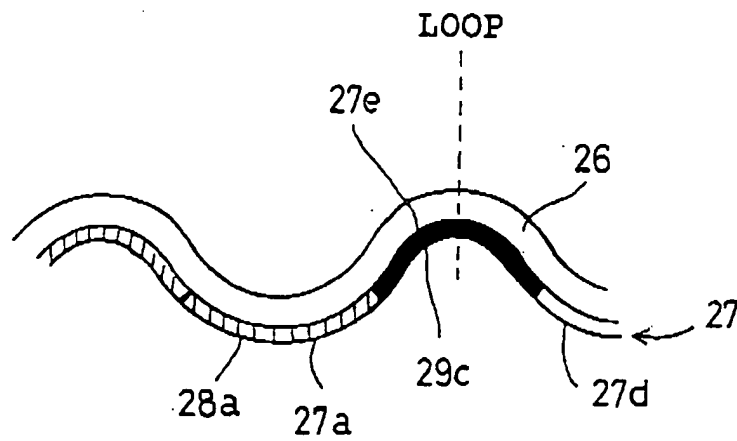


FIG. 14

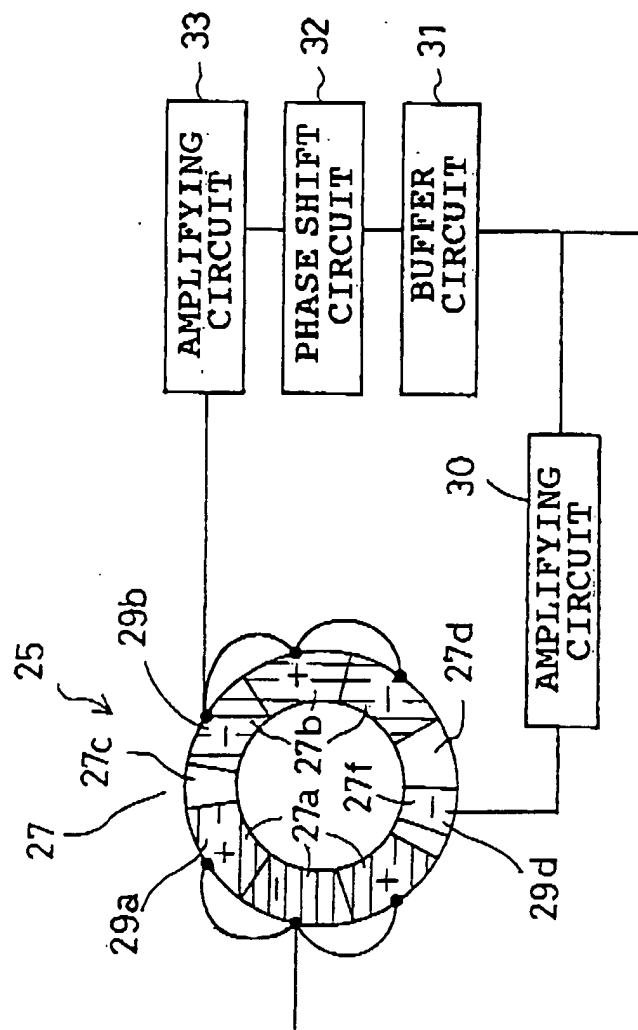
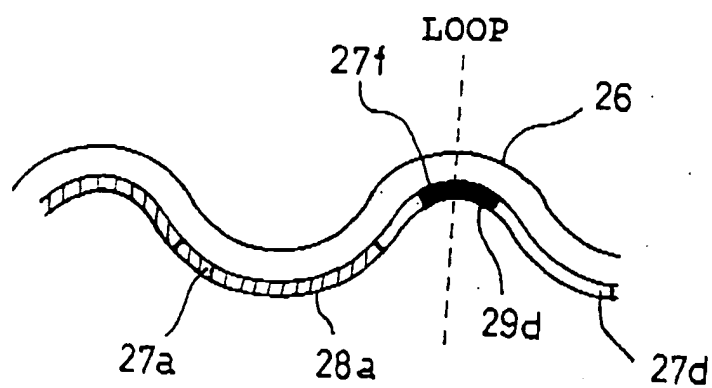


FIG. 15



66770-5335260

FIG.16

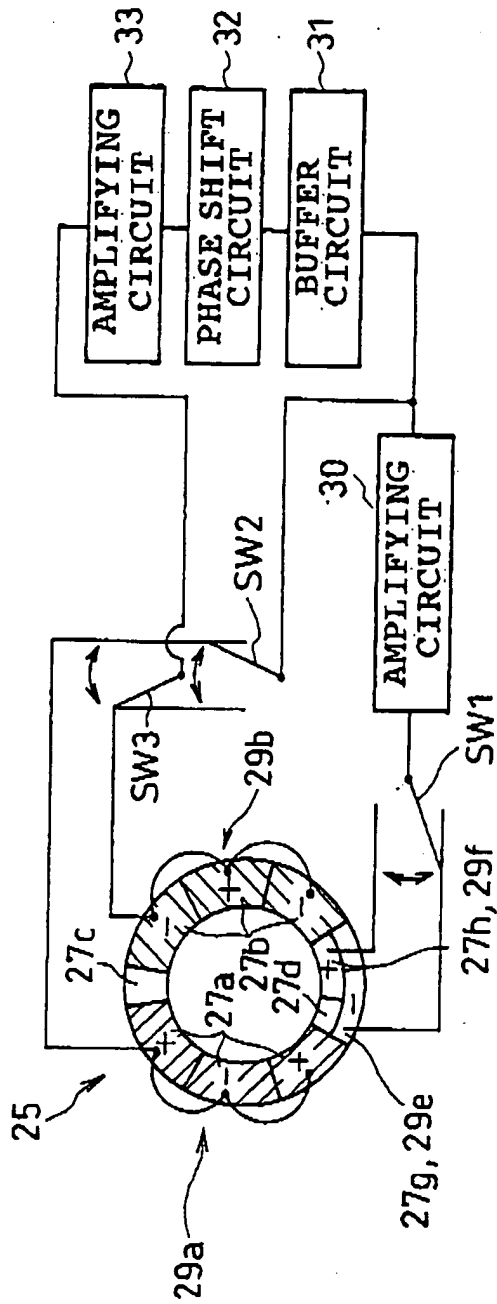


FIG.17

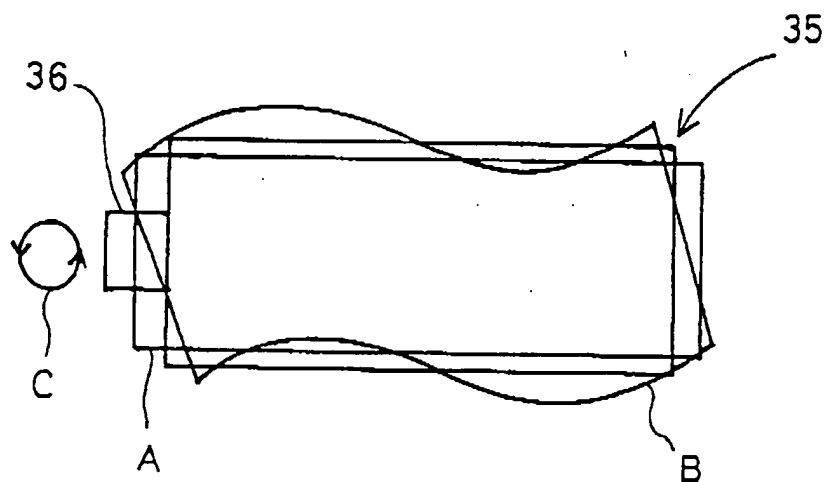


FIG.18

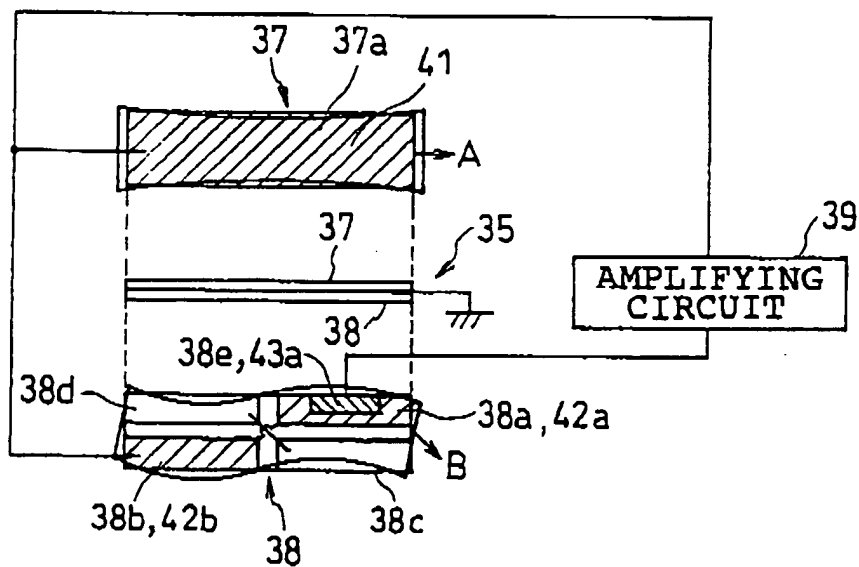


FIG. 19

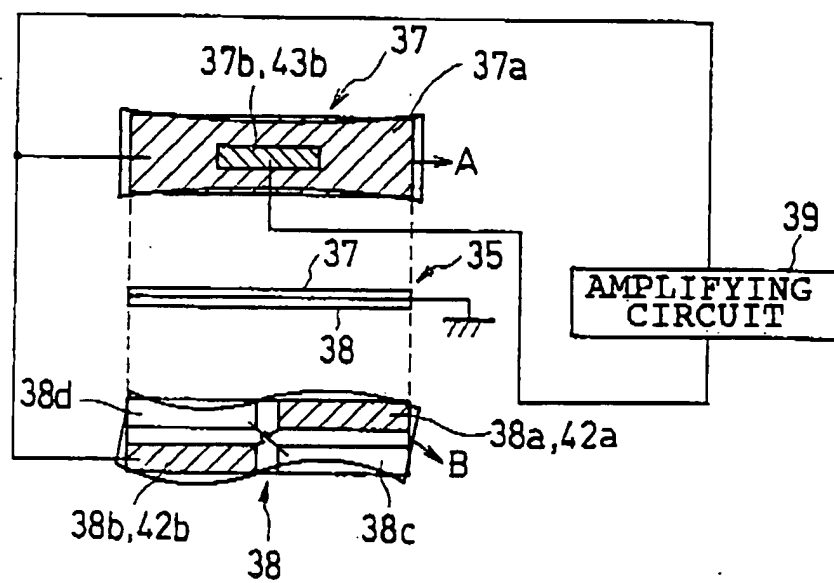
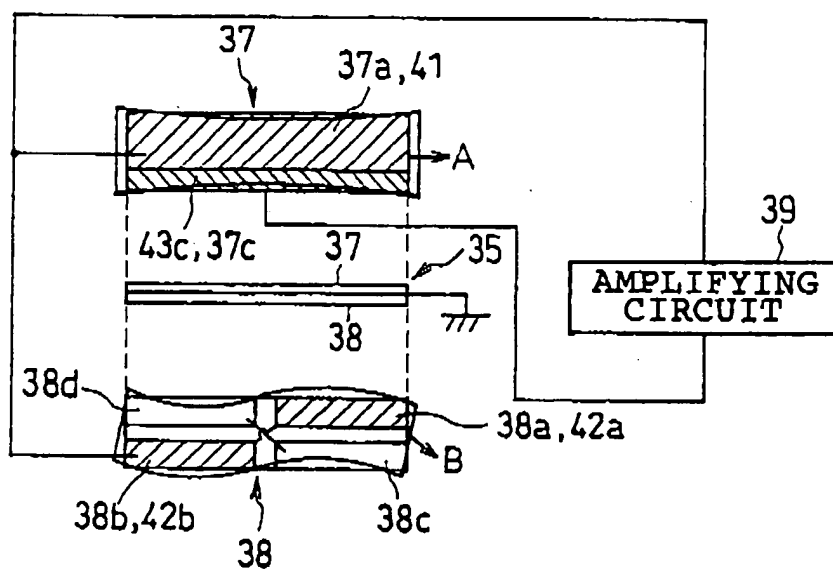


FIG. 20



662745-94000250

FIG. 21

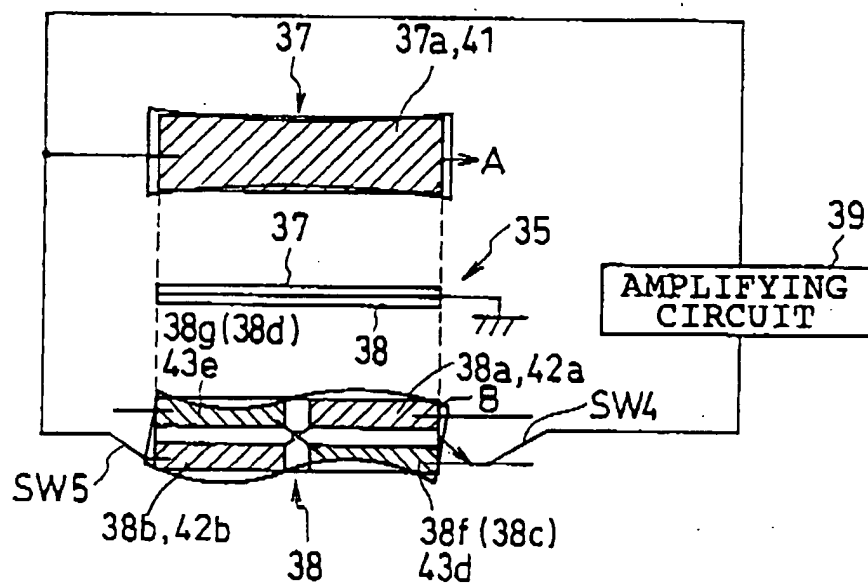


FIG. 22

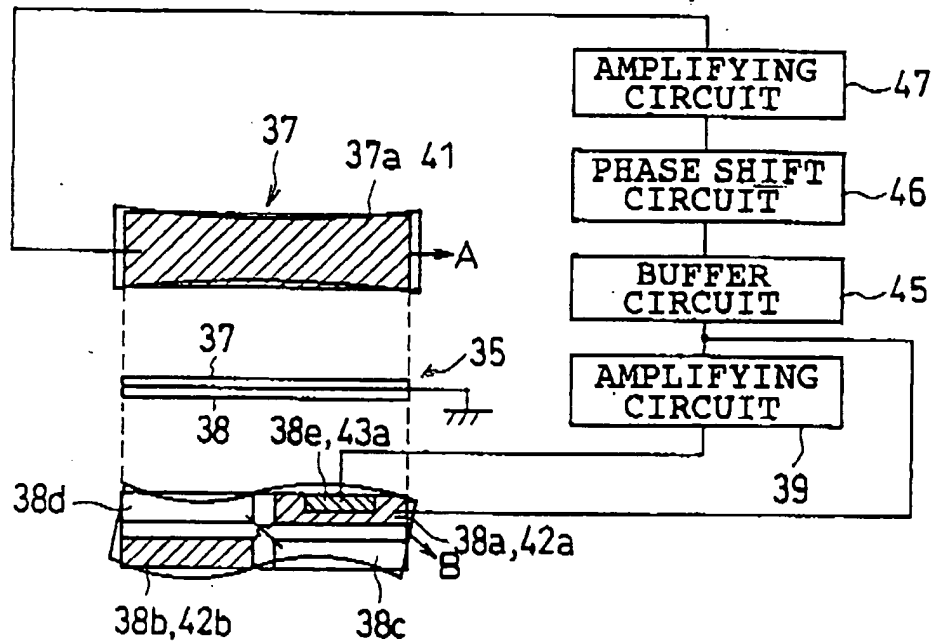
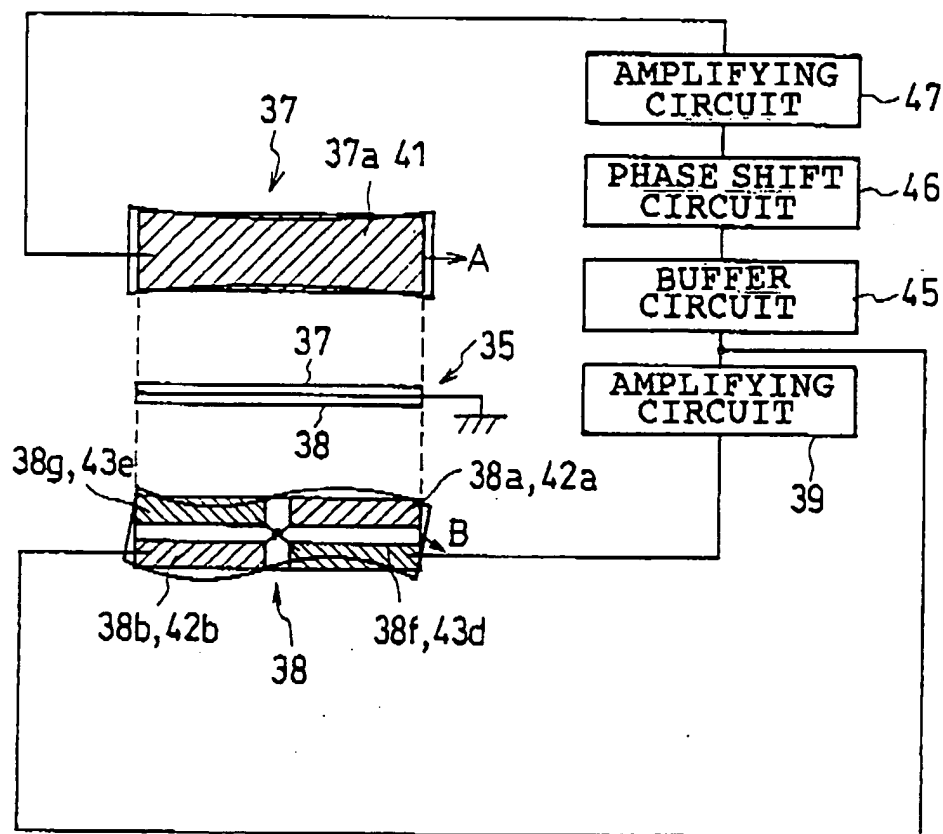
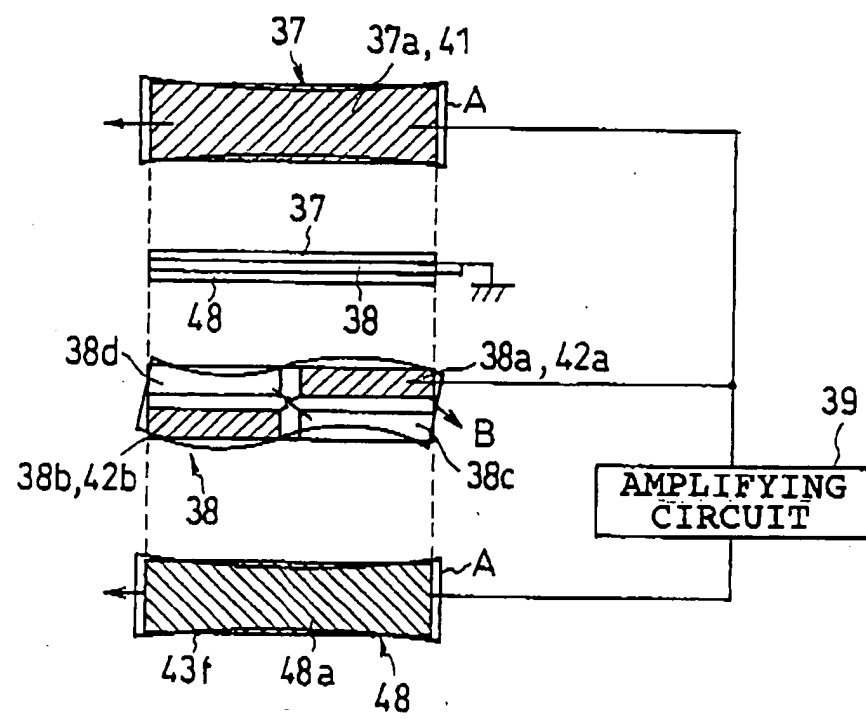


FIG. 23



66740-9400250

FIG. 24



2025 RELEASE UNDER E.O. 14176

FIG. 25

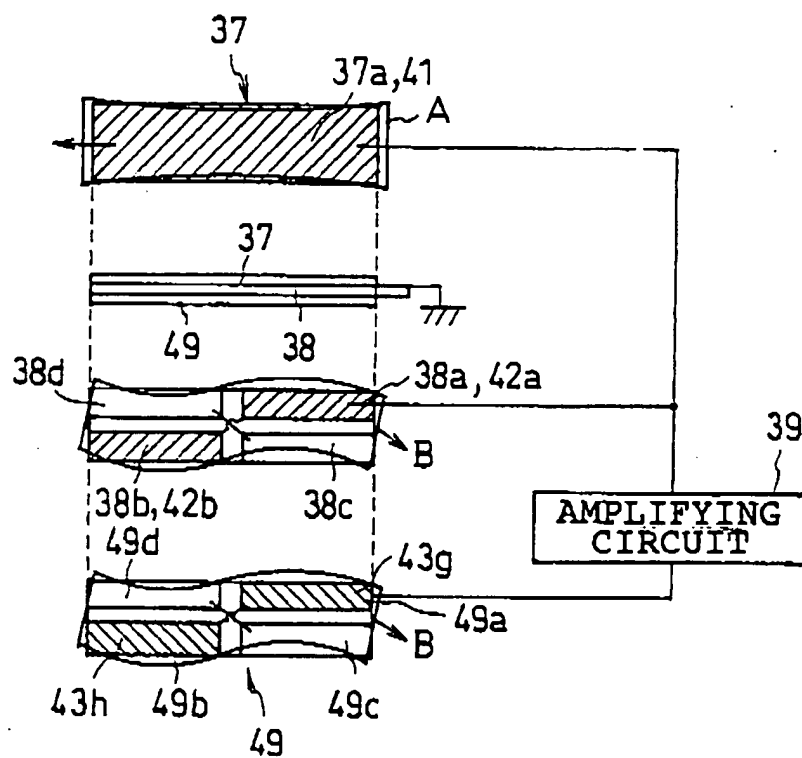


FIG. 26

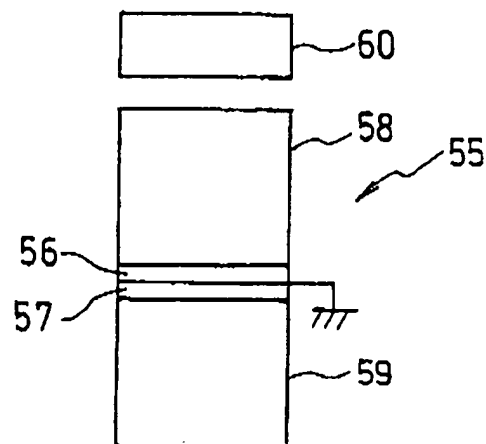


FIG. 27

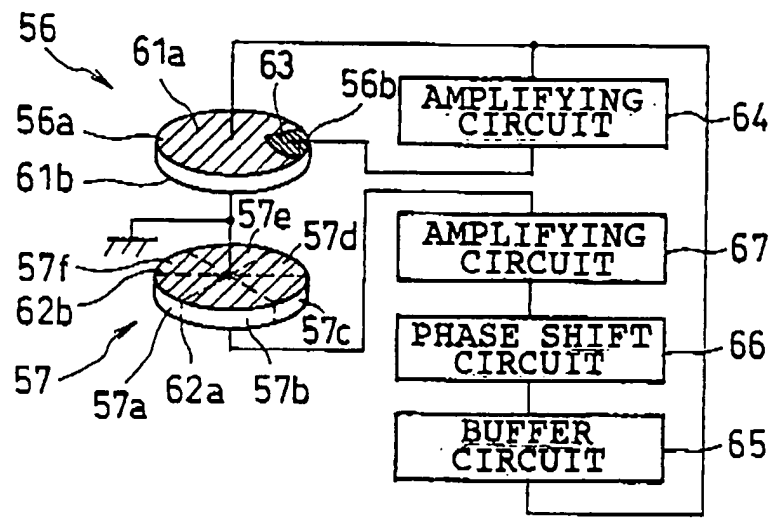
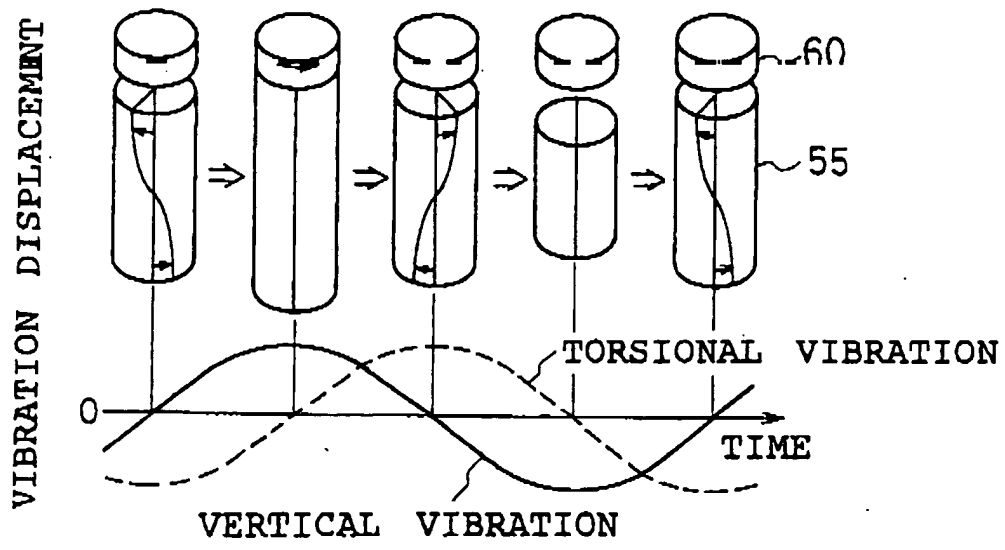


FIG. 28



66740-94006260

FIG. 29A

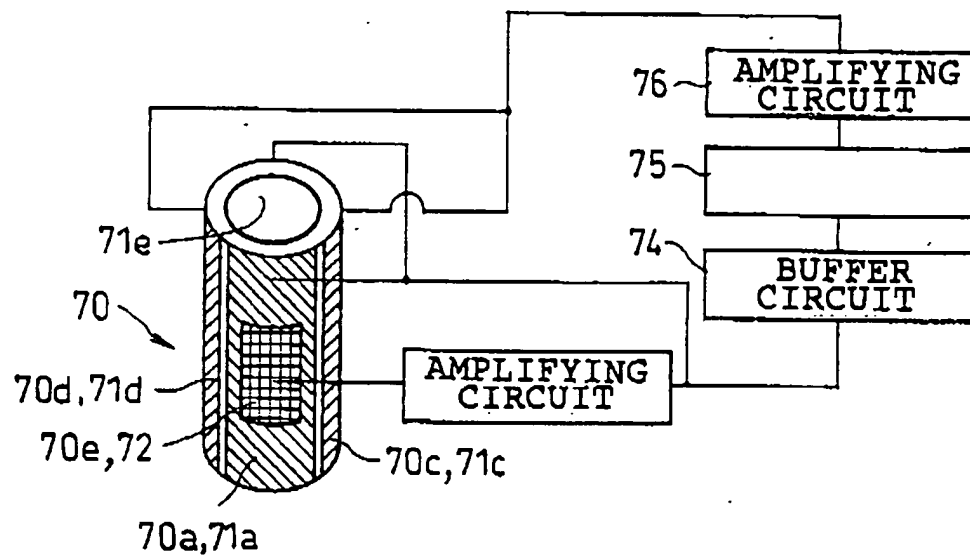


FIG. 29B

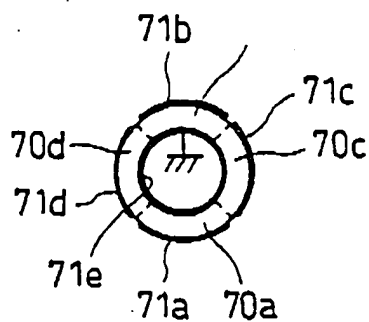


FIG. 30A

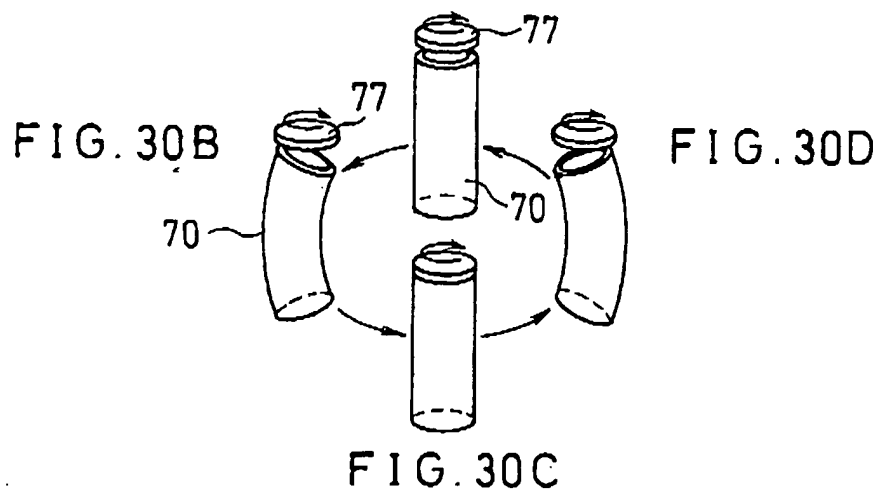


FIG. 31A

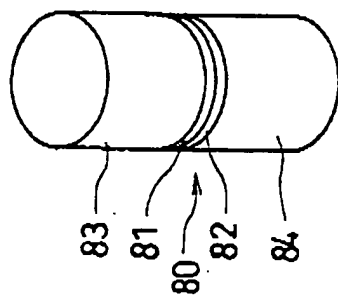


FIG. 31B

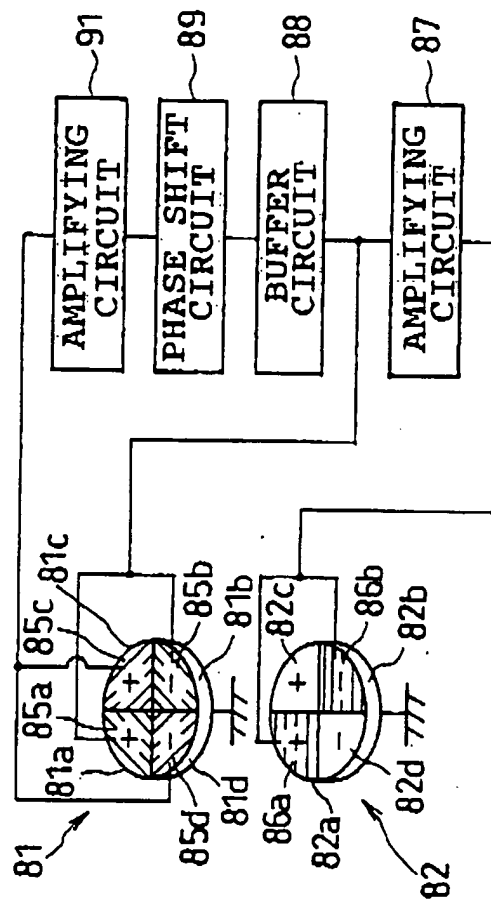


FIG. 32

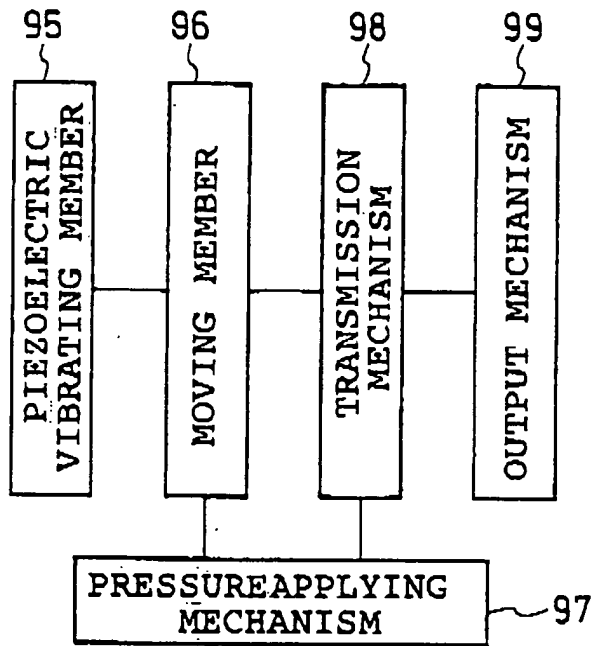


FIG. 33
PRIOR ART

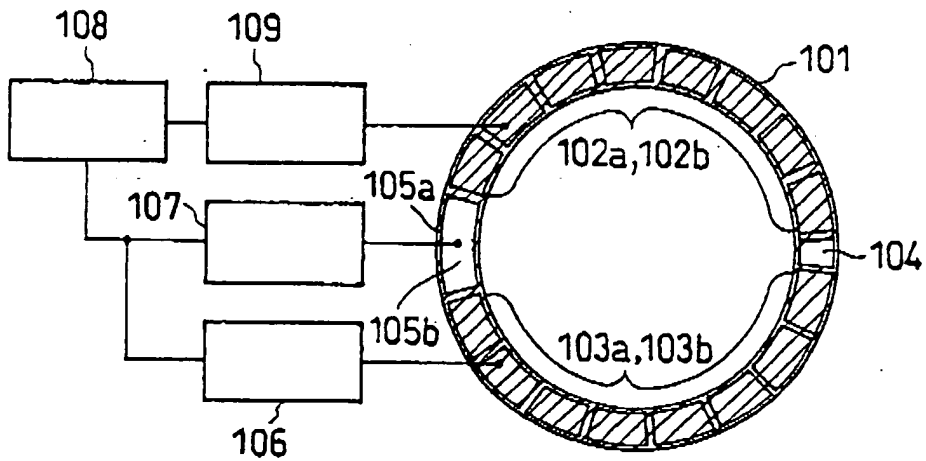


FIG. 34
PRIOR ART

